Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work:Improvements Of RCC Drains And CC Roads At Mallasandra in Ward no.13 Shettyhalli sub Division

					Est .Cost Rs.50.00 Lakhs				
Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 142/ Item No. 19.1/ PWD SR 2016-17								
	4th C Cross	Cum	2	65.00	1.00	1.00	130.00		
	Road 4th B Cross		1	85.00	0.90	0.45	34.43		
	4th C Cross		1	85.00	5.20	0.45	198.90		
	4th E Cross		1	45.00	0.90	0.45	18.23		
	4TH F Cross		1	45.00	0.90	0.45	18.23		
	Old Junjappa Temple Road		1	94.00	0.90	0.45	38.07		
	3rd Cross Near Old Junjappa Temple		1	60.00	0.90	0.45	24.30		
	3rd Cross Ashwath Katte		1	55.00	0.90	0.45	22.28		
	1st Cross		1	45.00	0.90	0.45	18.23		
	Cross Road		1	45.00	0.90	0.45	18.23		
	Road 4th B Cross		2	85.00	0.45	0.30	22.95		
	4th E Cross		2	45.00	0.45	0.30	12.15		
	4TH F Cross		2	45.00	0.45	0.30	12.15		
	Old Junjappa Temple Road		2	94.00	0.45	0.30	25.38		
	3rd Cross Near Old Junjappa Temple		2	60.00	0.45	0.30	16.20		
	3rd Cross Ashwath Katte		2	55.00	0.45	0.30	14.85		
	1st Cross		2	45.00	0.45	0.30	12.15		
	Cross Road		2	45.00	0.45	0.30	12.15		
	Road 4th B Cross		2	85.00	0.45	0.35	26.78		
	4th E Cross		2	45.00	0.45	0.35	14.18		
	4TH F Cross		2	45.00	0.45	0.35	14.18		
	Old Junjappa Temple Road		2	94.00	0.45	0.35	29.61		
	3rd Cross Near Old Junjappa Temple		2	60.00	0.45	0.35	18.90		
	3rd Cross Ashwath Katte		2	55.00	0.45	0.35	17.33		
	1st Cross		2	45.00	0.45	0.35	14.18		
	Cross Road		2	45.00	0.45	0.35	14.18	175.96	137950.88
				3.00			783.99	172.57	135292.29
2	Removing B S Slab Drain And Stacking Page No25 Item No 5.32 PWD SR 2016-17								
	4th C Cross	Sqm	2	65.00	1.35		175.50		
							175.50	65.72	11533.86

3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2 Page No.12/ Item No. 4.3/ PWD SR 2016-17								
	4th C Cross	**Cum**	2	65.00	1.00	0.15	19.50		
							19.50		
	From Using Available coarse aggregates								
a	**Available CA**			**13.16**			**15.49**	**4443.52**	**68809.21**
b	**Remaining Balance Qty**						**4.01**	**5159.02**	**20711.95**
4	KSSRB M400-7 Construction Of granular sub -base by providing coarse graded cushed stone aggregates of granite / trap / basalt material speading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achive the desired density. complete asper specification. **By mix in place method for Grading II Material** KSSRB Page No 156 Item No 20.6 and 20.6.3								
	Road 4th B Cross	**Cum**	1	85.00	0.90	0.20	15.30		
	4th C Cross		1	85.00	5.20	0.20	88.40		
	4th E Cross		1	45.00	0.90	0.20	8.10		
	4TH F Cross		1	45.00	0.90	0.20	8.10		
	Old Junjappa Temple Road		1	94.00	0.90	0.20	16.92		
	3rd Cross Near Old Junjappa Temple		1	60.00	0.90	0.20	10.80		
	3rd Cross Ashwath Katte		1	55.00	0.90	0.20	9.90		
	1st Cross		1	45.00	0.90	0.20	8.10		
	Cross Road		1	45.00	0.90	0.20	8.10		
	Road 4th B Cross		2	85.00	0.45	0.15	11.48		
	4th E Cross		2	45.00	0.45	0.15	6.08		
	4TH F Cross		2	45.00	0.45	0.15	6.08		
	Old Junjappa Temple Road		2	94.00	0.45	0.15	12.69		
	3rd Cross Near Old Junjappa Temple		2	60.00	0.45	0.15	8.10		
	3rd Cross Ashwath Katte		2	55.00	0.45	0.15	7.43		
	1st Cross		2	45.00	0.45	0.15	6.08		
	Cross Road		2	45.00	0.45	0.15	6.08		
							237.71	**1582.58**	**376195.09**
5	KSSRB M600-1 Construction Of **dry lean cement concrete mix CC1:5:10** With OPC cement @160kgs,with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum sub-base over a prepared sub-grade with (course and fine aggregate conferming to IS:383) aggregate cement ratio not to exceed 15:1. Aggregate gardation after blending to br as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be less than 10Mpa at 7days, mixxed in a batching plant, transported to site, laid with a paver with electronic sensor, comacting with 8-10 tonnes vibratory roller,finishing and curing complete asper Specification KSSRB:Page No 176, Item No 22.2 and 22.2.1								
	Road 4th B Cross	**Cum**	1	85.00	0.90	0.15	11.48		
	4th C Cross		1	85.00	5.20	0.15	66.30		
	4th E Cross		1	45.00	0.90	0.15	6.08		
	4TH F Cross		1	45.00	0.90	0.15	6.08		

	Old Junjappa Temple Road		1	94.00	0.90	0.15	12.69		
	3rd Cross Near Old		1	60.00	0.90	0.15	8.10		
	3rd Cross Ashwath Katte		1	55.00	0.90	0.15	7.43		
	1st Cross		1	45.00	0.90	0.15	6.08		
	Cross Road		1	45.00	0.90	0.15	6.08		
	Road 4th B Cross		2	85.00	0.45	0.15	11.48		
	4th E Cross		2	45.00	0.45	0.10	4.05		
	4TH F Cross		2	45.00	0.45	0.10	4.05		
	Old Junjappa Temple Road		2	94.00	0.45	0.10	8.46		
	3rd Cross Near Old Junjappa Temple		2	60.00	0.45	0.10	5.40		
	3rd Cross Ashwath Katte		2	55.00	0.45	0.10	4.95		
	1st Cross		2	45.00	0.45	0.10	4.05		
	Cross road		2	45.00	0.45	0.10	4.05		
							176.78	**3986.66**	**704741.82**
6	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Page No.12/ Item No. 4.5/ PWD SR 2016-17								
	Drain Rafi Concrete	**Cum**	2	65.00	0.90	0.15	17.55		
	Side Wall		4	65.00	0.15	0.75	29.25		
							46.80	**5874.52**	**274927.54**
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting,. propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached1 pilasters, buttresses, plinth cilis and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No.15/ Item No. 4.31/ PWD SR 2016-17								
		Sqm	8	65.00	0.90		468.00		
							468.00	**310.58**	**145351.44**
8	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.**M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Page o 177 Item No 22.6.1**								
	Road 4th B Cross	**Cum**	1	85.00	5.00	0.15	63.75		
	4th C Cross		1	85.00	5.20	0.15	66.30		
	4th E Cross		1	45.00	5.00	0.15	33.75		
	4TH F Cross		1	45.00	5.00	0.15	33.75		
	Old Junjappa Temple Road		1	94.00	4.50	0.15	63.45		
	3rd Cross Near Old Junjappa Temple		1	60.00	4.20	0.15	37.80		
	3rd Cross Ashwath Katte		1	55.00	4.20	0.15	34.65		

	1st Cross		1	45.00	4.00	0.15	27.00		
	Cross Road		1	45.00	4.00	0.15	27.00		
							387.45	**6217.96**	**2409148.60**
9	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500. Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17								
	For RCC Drian	Tonnes		**46.80**	x	60kgs	2.81		
						Say	**2.81**	**74331.44**	**208722.68**
10	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement Page No.178/ Item No.22.8, 22.8.1/ PWD SR 2016-17								
	Road 4th B Cross	**Rmt**	1	5.00	5.00		25.00		
	4th C Cross		1	4.00	5.20		20.80		
	4th E Cross		1	4.00	5.00		20.00		
	4TH F Cross		1	4.00	5.00		20.00		
	Old Junjappa Temple Road		1	8.00	4.50		36.00		
	3rd Cross Near Old		1	8.00	4.20		33.60		
	3rd Cross Ashwath Katte		1	8.00	4.20		33.60		
	1st Cross		1	8.00	4.00		32.00		
	Cross Road		1	8.00	4.00		32.00		
							253.00	**121.90**	**30840.70**
11	Providing & laying reinforeced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
		Sqm	2	65.00		0.90	117.00	115.20	193536.00
				64.00			**117.00**	**1680.00**	**196560.00**
							115.20		
									4582169.78
							Sub Total		**4582835.19**
12	**Miscellaneous and Other Charges**							412422.28	412455.17
13	**Rounding off**							5107.94	4709.64
							Grand Total		**5000000.00**
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2016-17
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.
5 This work is not included in any other estimate.

Asst Engineer
Ward No-13

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ಸಂ. JC/D/AS/12/17-18 ದಿನಾಂಕ : 27/4/17

ರೂ. Fifty lakhs Rupees only.

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಅಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಜಂಟಿ ಆಯುಕ್ತರು

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಸಂ. CE/D2/TS/35/17-18 ದಿನಾಂಕ : 28/4/17

ರೂ. 50.00 Lakh [Rupees Fifty Lakhs Only.

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು

ಬಿ.ಬಿ.ಎಂ.ಪಿ.

ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

RATE ANALYSIS

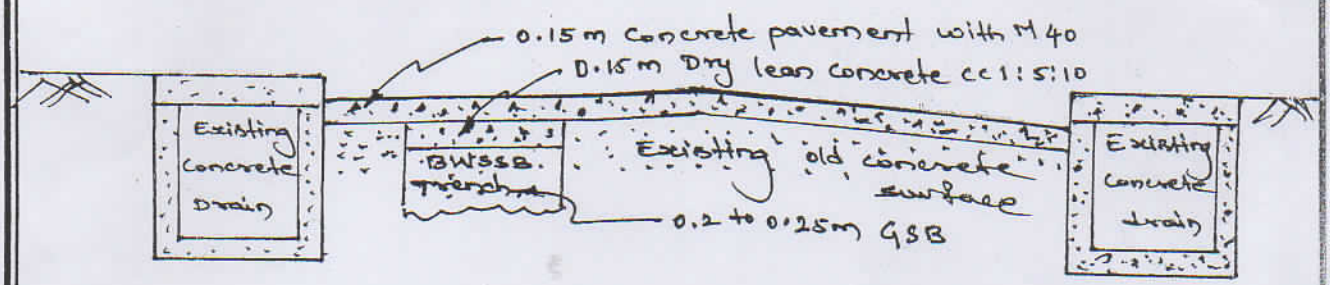
Sl No	Item no & Paze no	Description	Unit	Basic Rate Rs	Area Weightage @ 6%	Total Rs	Remarks
1	I No: 19.1 Page No:142	Exavation For Road Work In All types of soil with hydraulic exavator of .9 cum bucket capacity	**Cum**	82.00			
	I No: 17.1 Page No:134	Loading And Unloading		68.00			
		Lead For 5 km => 5 x 1.28 x ~~2.0~~ 2.5 =~~12.80~~ 16.00		~~12.80~~ 16.00	9.96	175.96	
			Total	~~162.80~~ 160	~~9.77~~	**~~172.57~~**	
2	I No: 5.32 Page No:25	Removing B S Slab	**Sqm**	62.00	3.72	**65.72**	
3	I No: 4.3 Page No:12	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement	**Cum**	4867.00			
	Page No :III	Deduct Rate For Boulder	**Cum**	-675.00			
a			**Total**	4192.00	251.52	**4443.52**	
b	I No:4.3 Page No :12	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement	**Cum**	4867.00	292.02	**5159.02**	
4	I No:20.6.2 Page No:156	Construction of Granular Sub base by providing coarse graded aggrigates Grading II Material	**Cum**	1493.00	89.58	**1582.58**	
5	I No:22.1 Page No:176	Construction of dry lean cement Concrete of mix CC 1:5:10	**Cum**	3761.00	225.66	**3986.66**	
6	I No:4.5 Page No:12	Providing Laying Plain Cement Concrete of mix M20 with OPC with 20MM Down Size	**Cum**	5542.00	332.52	**5874.52**	
7	I No:4.31 Page No:15	Providing And Removing Centring ,Shuttering , Strutting for Vertical Surface	**Sqm**	293.00	17.58	**310.58**	
8	I No:22.2.2 Page No:176	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement design mix M30	**Cum**	5866.00	351.96	**6217.96**	
9	I No:4.46.3 Page No:17	Providing T.M.T steel reinforcement for R.C.C work	**Tonne**	70124.00	4207.44	**74331.44**	
10	I No:22.8.1 Page No:178	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm	**Rmt**	115.00	6.90	**121.90**	
11		Providing & laying reinforeced cement precast slabs of mix ~~of~~ CC 1:11/2:3	**Sqm**	1680.00	-	**1680.00**	**Data Rate**

Asst.Engineer,
Ward No.13,

Asst.Executive Engineer,
Shettyhalli Sub Division, Dasarahalli Zone
BBMP, Bangalore.

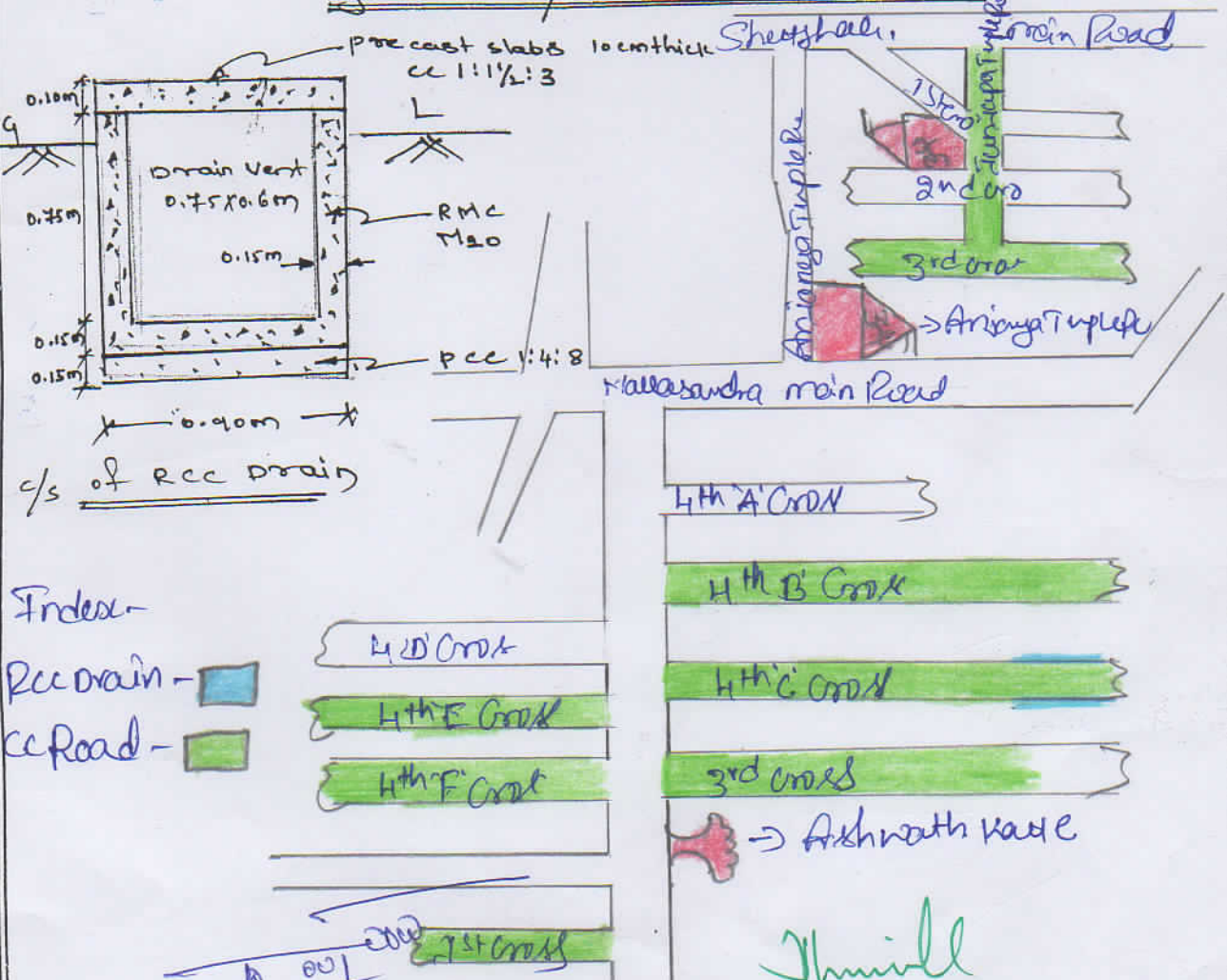
Executive Engineer,
Dasarahalli Division,
BBMP, Bangalore.

Name of Work Improvements of Rcc drains and cc Roads at Mallasandra Ph Ward No-13 Shettyhalli Sub-division


Carriage way 3 to 4.5m
0.15m Concrete pavement with M40
0.15m Dry lean concrete cc 1:5:10
Existing concrete drain
BWSSB trench
Existing old concrete surface
0.2 to 0.25m GSB
Existing concrete drain

Typical c/s of cc Road Surface

c/s of Rcc Drain



Asst.Engineer
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